

PROJECT NO.

BEST AVAILABLE COPY

EXHIBIT 1

DATE

SUBJECT

PROJECT NO

21

BDO RUN SHEET

Run Date:	Catalyst: JB73
Run Reference: 17328-80	Cat. Reference: 17232-2
Data Table: BDOOT_7.XLS	Study No.: 1

Process Conditions

Pressure psig: 4000	Temperatures	Set T (C)	Bed T (C)
[MAC] wt/v%: 40	Zone 1:	165	157.7
LHSV /h: 0.8	Zone 2:	166	171.0
Prod. g/kg/h: 527	Zone 3:	166	172.9
MACIn mole/h: 0.110345	Zone 4:	175	177.7
GHSV /h: 5437.5	Average:	167.8	171.2
H2/MAC: 88	TOS h:	5518.82	AcH In, mole/h
H2 Rec/Mup: 12.08	Weight Cat. g:	24.3	AcH In, mole/h
[Ach] wt/v%:	Volume Cat. cc:	40	
[Ach] wt/v%:			

Product Selectivities

BDO:	74.48	CH4:	0.06
THF:	16.14	C3H8:	0.01
GBL:	3.87	C4H10:	0.06
	94.49		0.14
PrOH:	0.66		
BuOH:	3.36	COx:	0.00
	4.02		
PrAc:	0.00	Mass Balance:	1.02
BuAc:	0.00		
SAC:	1.38		
	1.38		
			EtOH out, mole/h

Witnessed

Signed

Date

Date